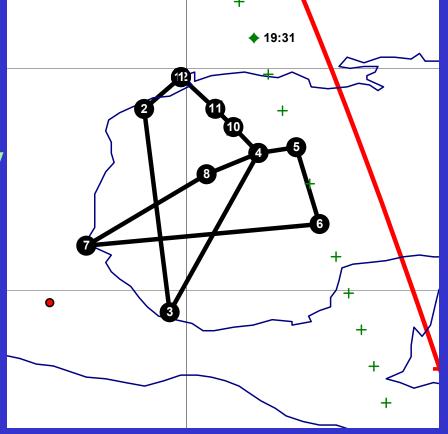
Plan for INTEX-B flight#4 – Houston local 2 on Thursday 3/9 updated 3/8 @18Z

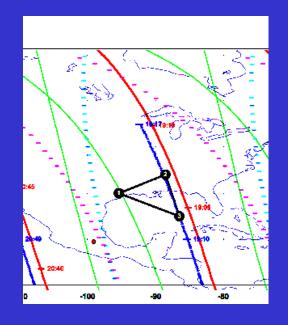
Objectives:

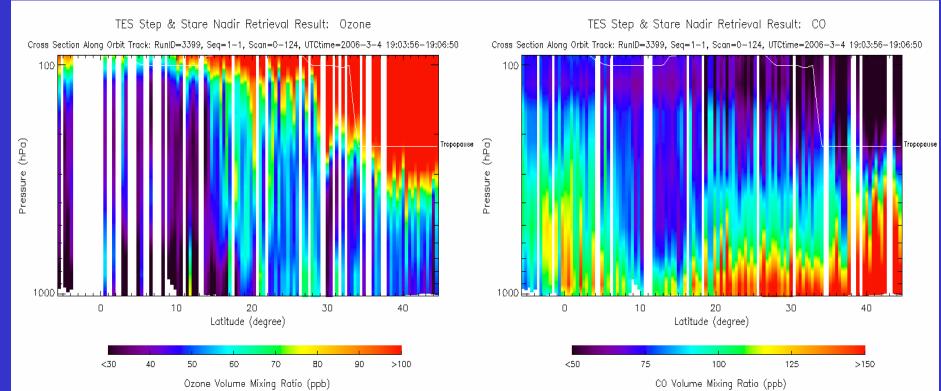
- 1. Characterization of the Mexico City plume
- 2. TES validation (points 5-6)
- 3. OMI validation (throughout)



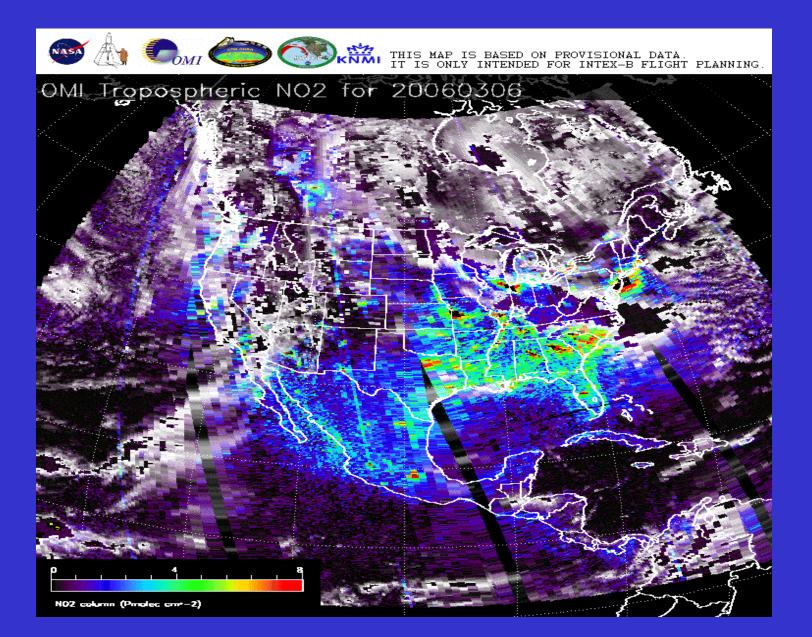
- Take-off at 9 a.m.
- Points 2-4: vertical profiling in 0.5-25K column
- Points 4-6: climb to highest altitude, spiral down at point 6
- Points 6-10: vertical profiling in 0.5-25K column
- Points 10-12: boundary layer leg

Sat March 4 TES validation: Preliminary TES Ozone and CO

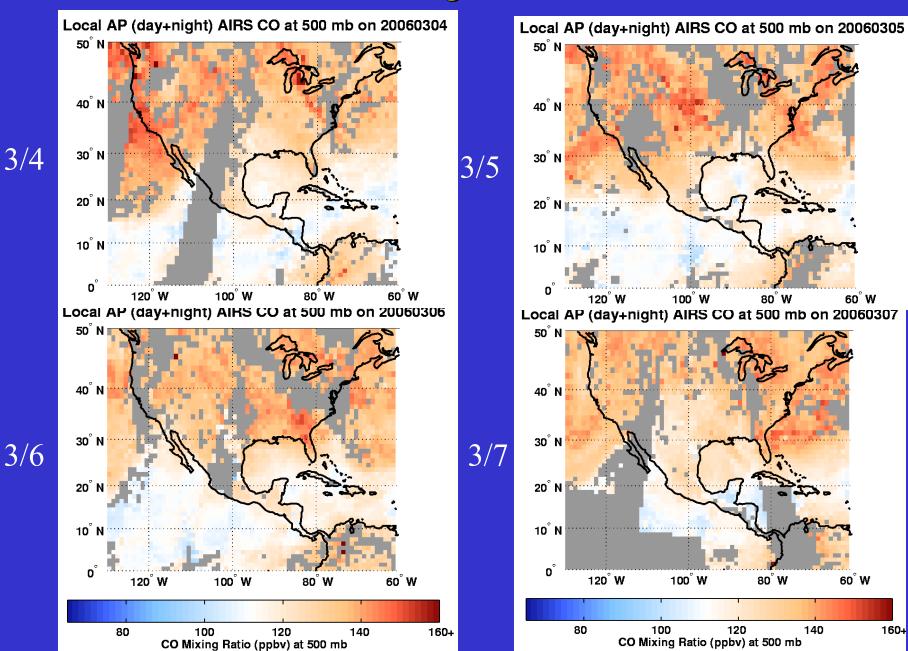




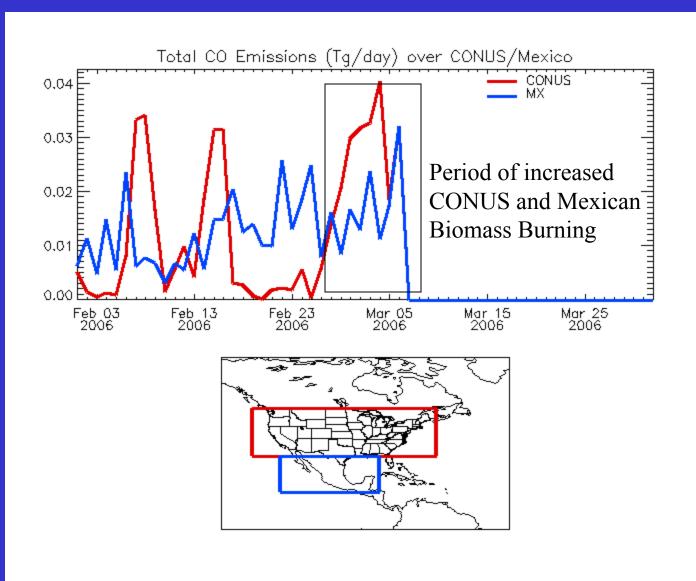
OMI tropospheric NO₂ - Monday



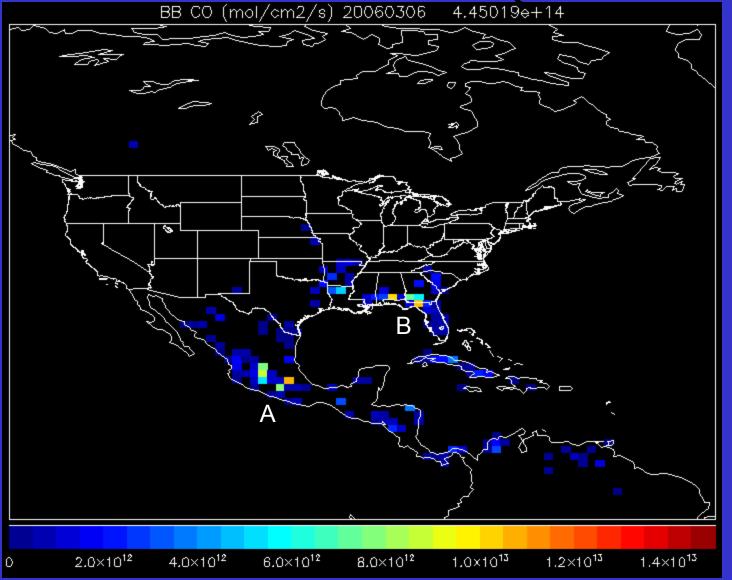
AIRS CO Mixing Ratio at 500mb



RAQMS NRT CONUS & Mexican Biomass Burning Emissions



BB CO emissions for Current RAQMS Forecast

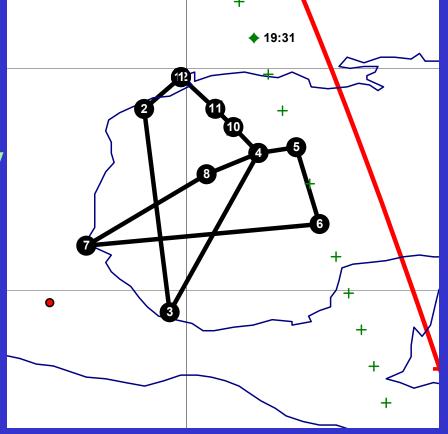


Hot spots near Mexico City (A) and Southern Georgia (B), Brazil has shut down.

Plan for INTEX-B flight#4 – Houston local 2 on Thursday 3/9 updated 3/8 @18Z

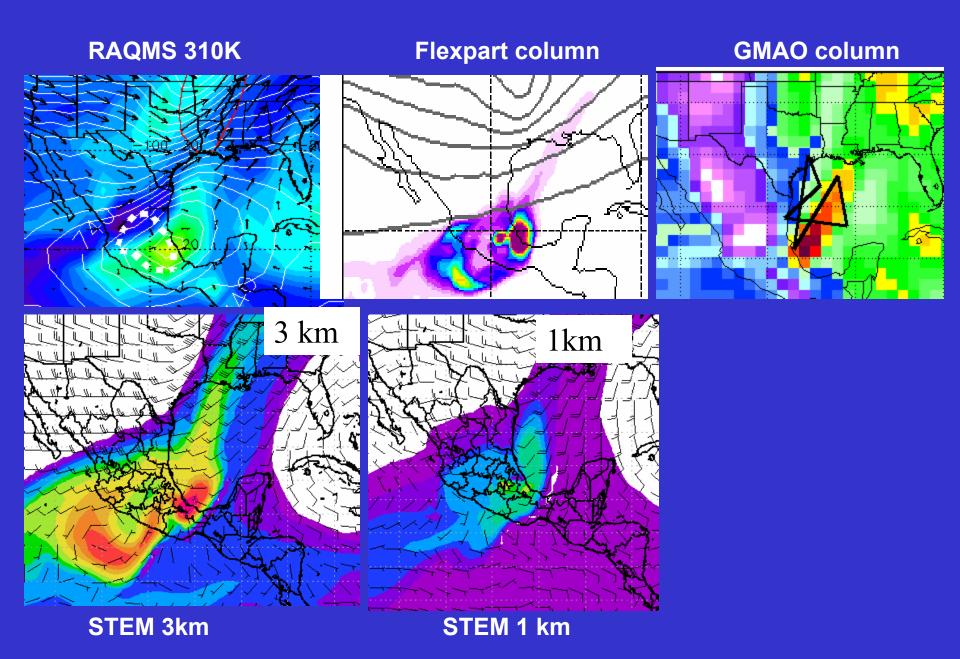
Objectives:

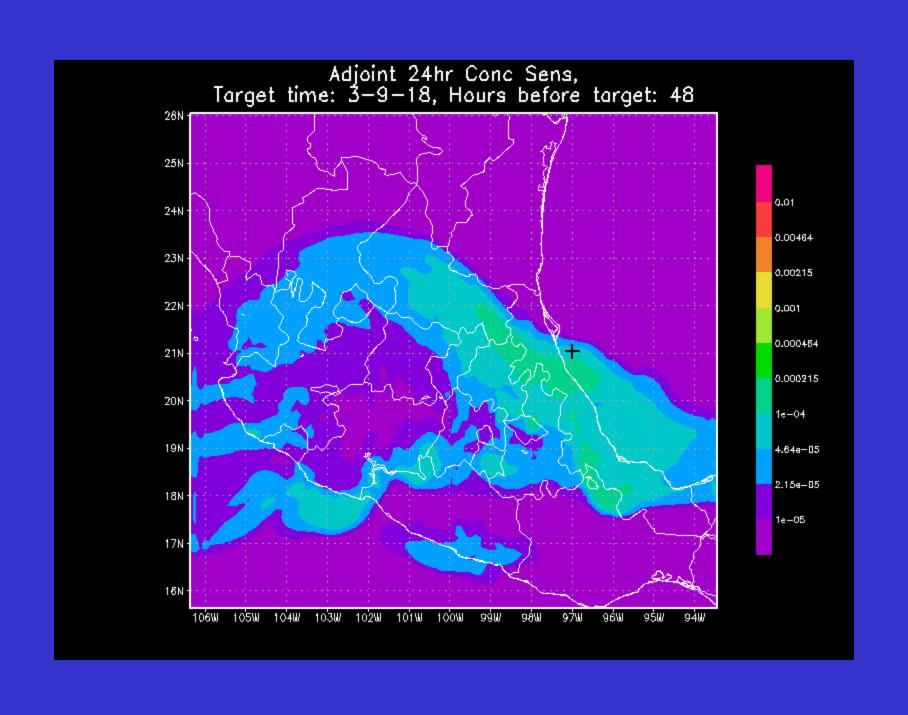
- 1. Characterization of the Mexico City plume
- 2. TES validation (points 5-6)
- 3. OMI validation (throughout)



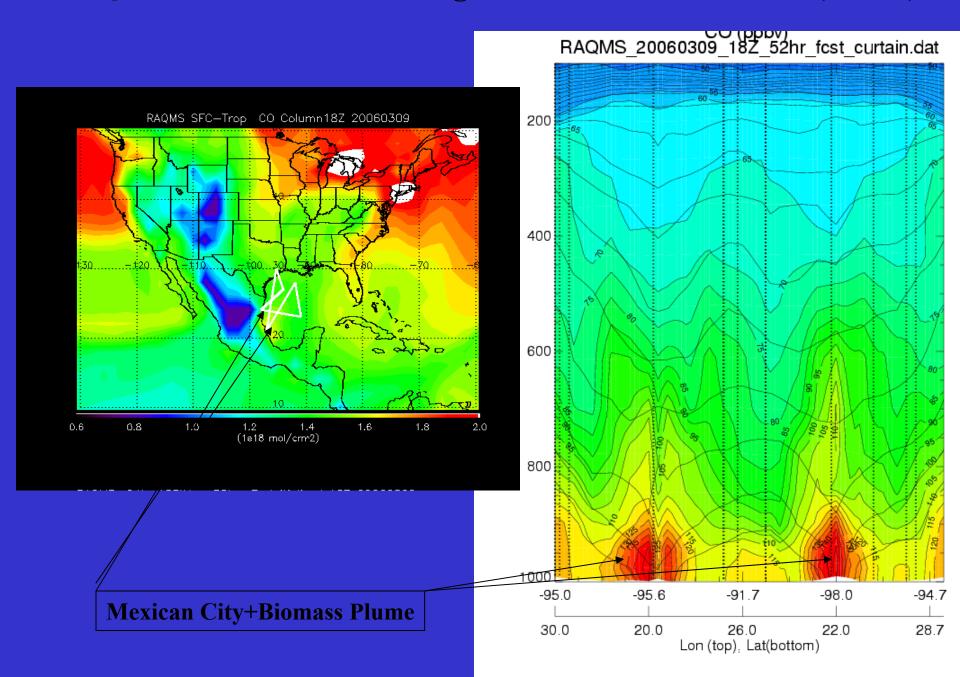
- Take-off at 9 a.m.
- Points 2-4: vertical profiling in 0.5-25K column
- Points 4-6: climb to highest altitude, spiral down at point 6
- Points 6-10: vertical profiling in 0.5-25K column
- Points 10-12: boundary layer leg

Chemical forecasts for Thursday 18Z

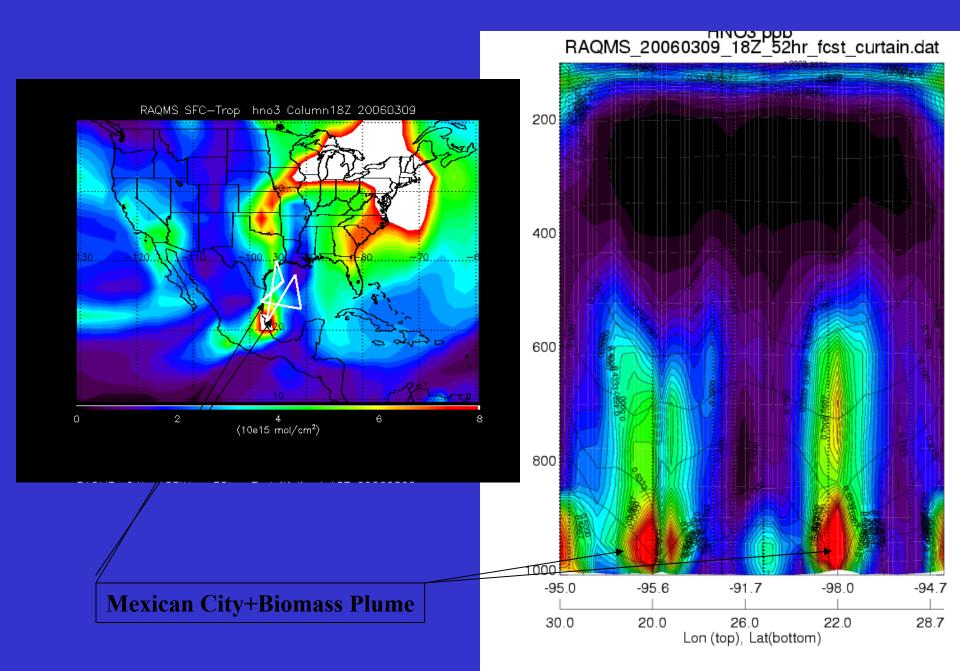




RAQMS 54hr O3 Curtain/Flight Track valid 18Z 03/09 (Thurs)

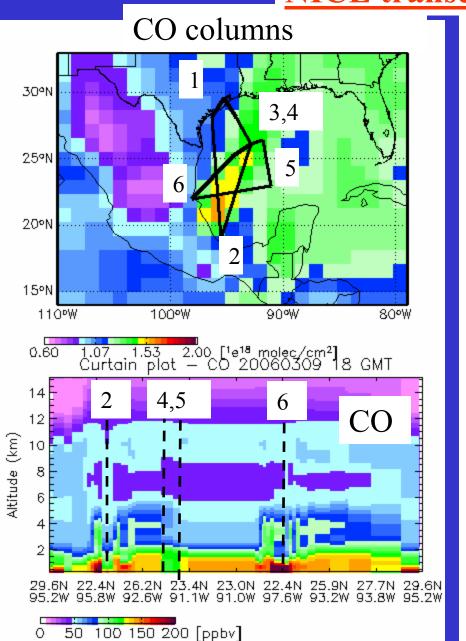


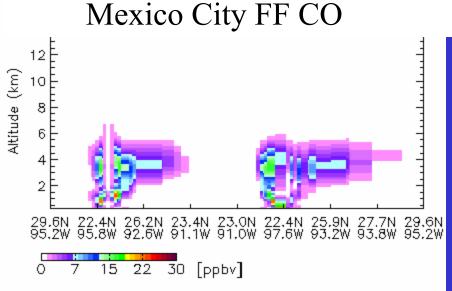
RAQMS 54hr HNO3 Curtain/Flight Track valid 18Z 03/09 (Thurs)



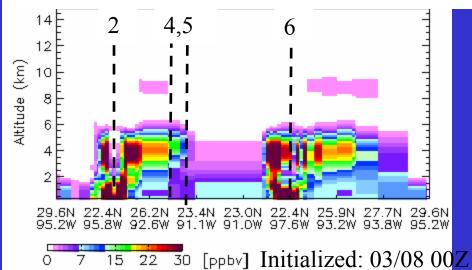
GMAO Curtain Plot along Thursday's proposed flight track @ 18Z

NICE transects of the plume

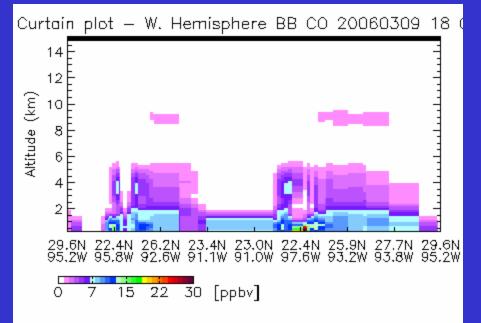


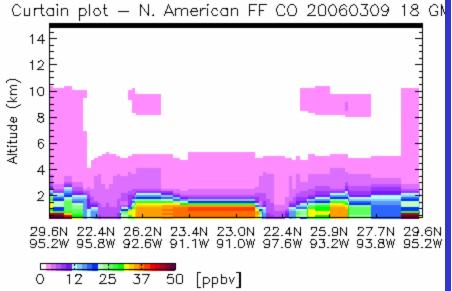


Other Mexico & Central America FF CO



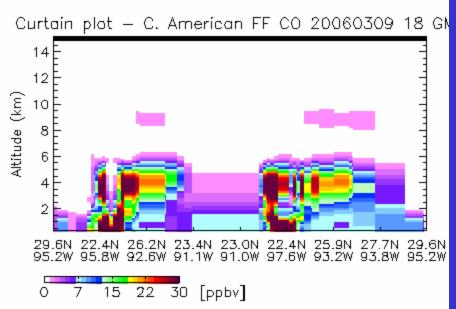
GMAO Curtain Plot along Thursday's proposed flight track @ 18Z



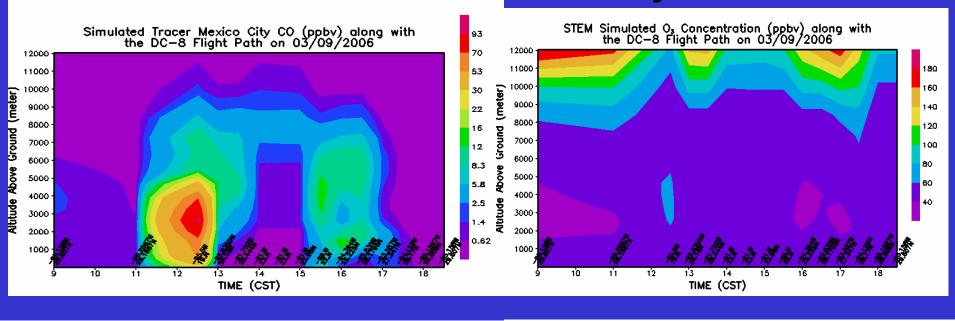


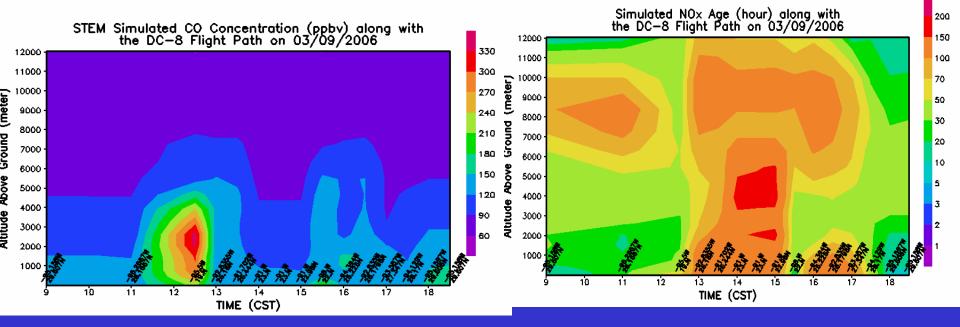
Some biomass burning influence in these plumes

Plumes strictly Mexico/Central America...no NA influence

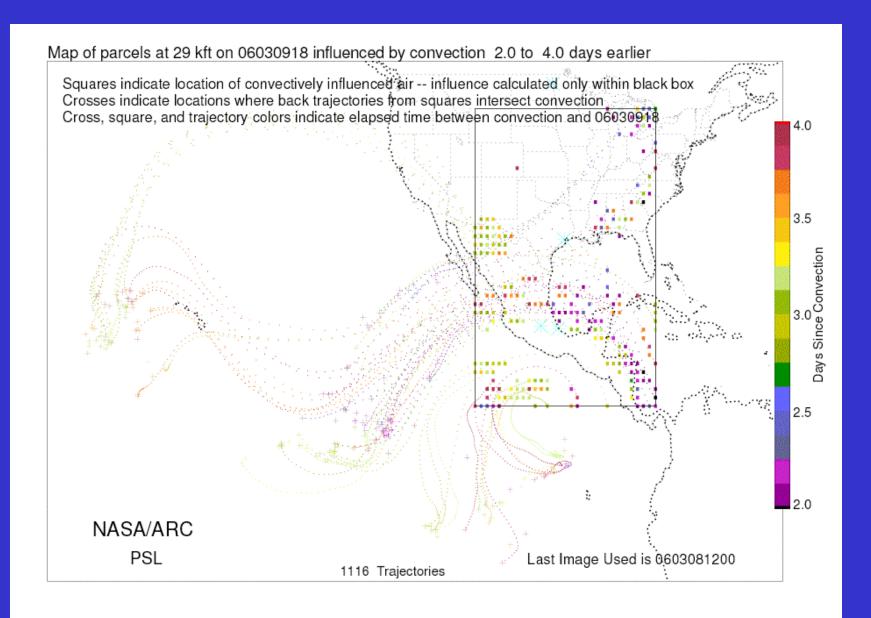


STEM March 9 Thursday

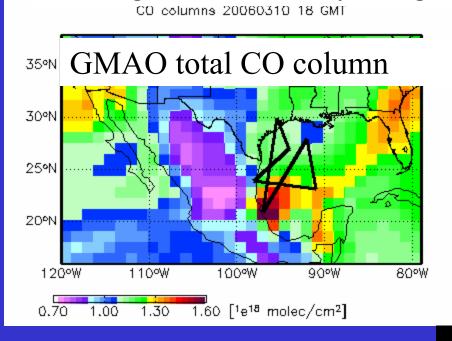


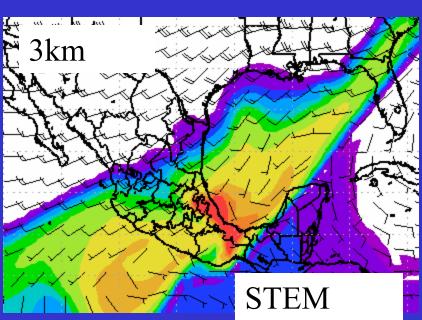


Deep convective influence Thursday

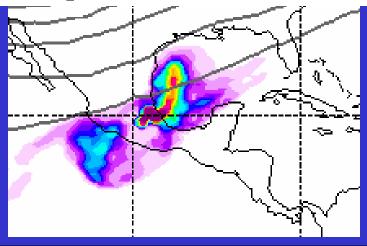


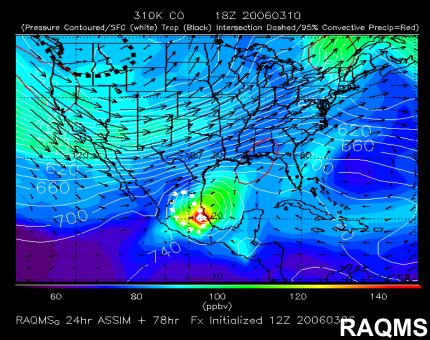
Looking ahead to Friday's flight FRI 18Z





Flexpart MC CO columns

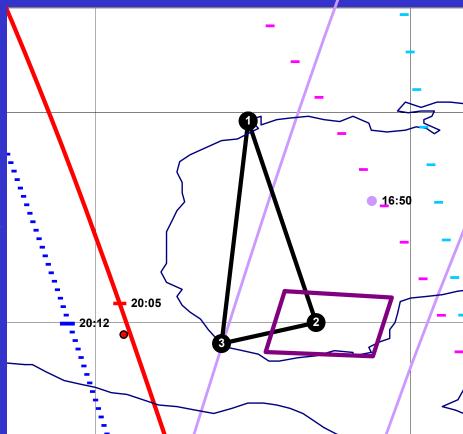




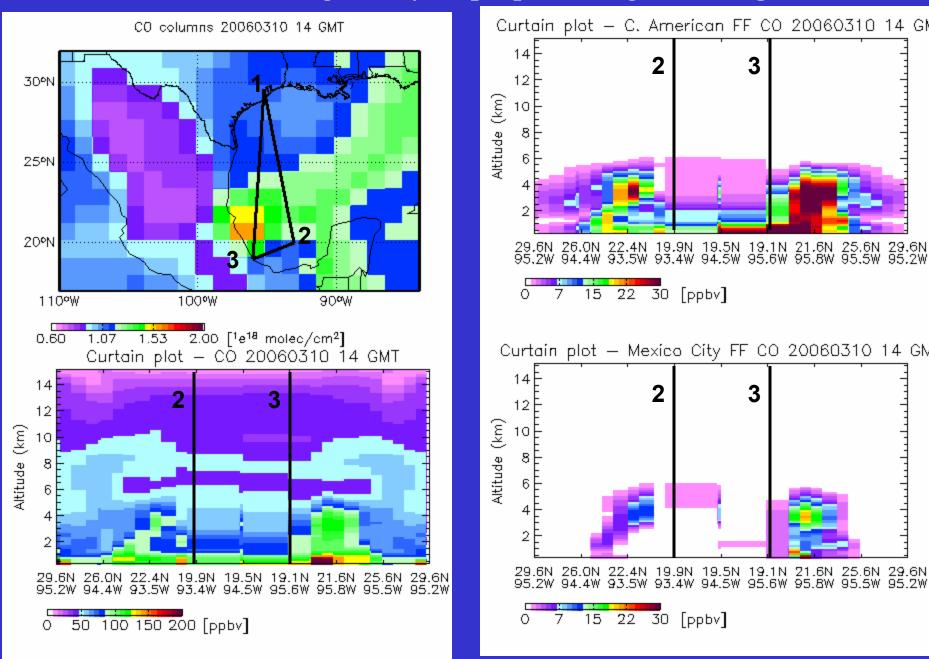
Plan for INTEX-B flight#5 – Houston local 3 on Friday 3/10 updated 3/8 @18Z

Objectives:

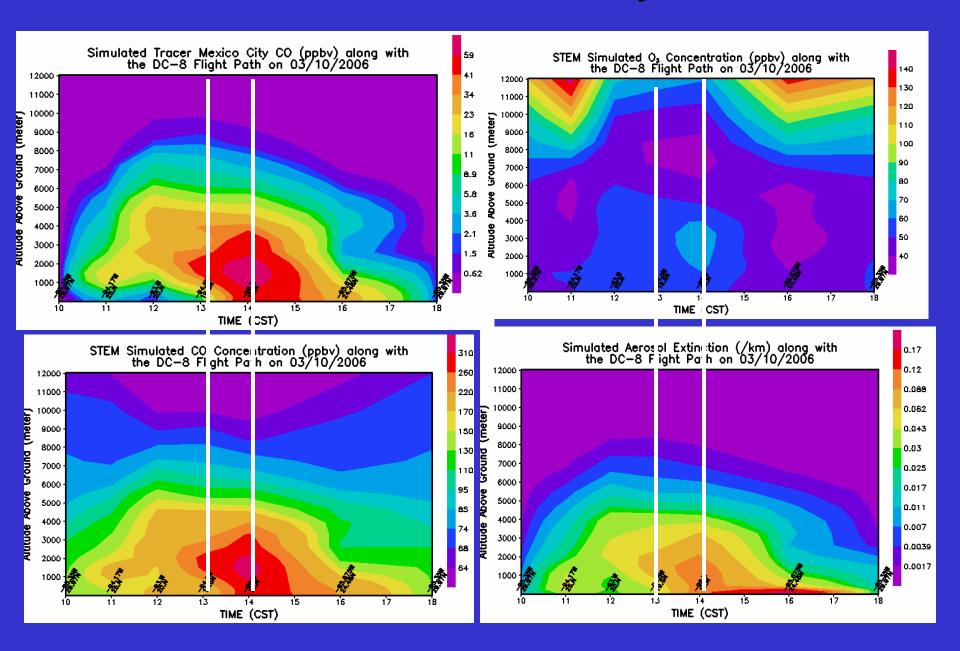
- 1. Mexico City plume
- 2. MISR + Terra validation (point 2)
- 3. Intercomparison w/C-130 at point 3?



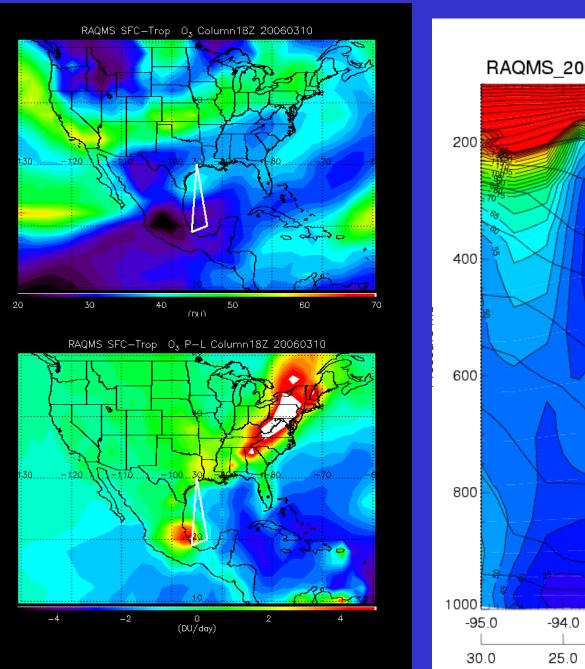
GMAO Curtain Plot along Fridays's proposed flight track @ 14Z

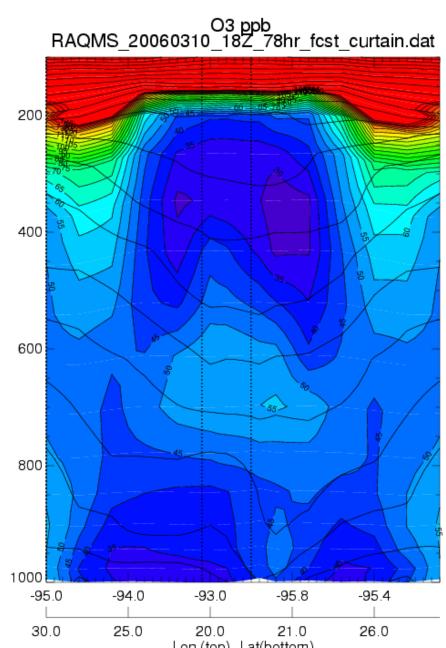


STEM March 10 Friday

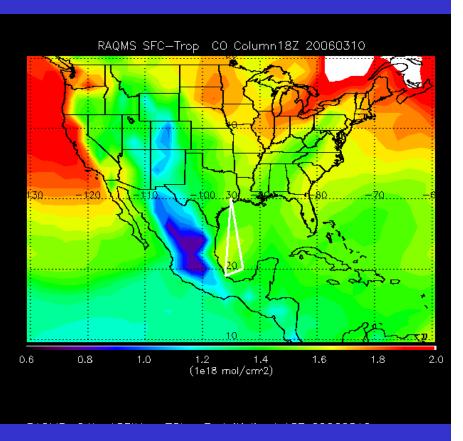


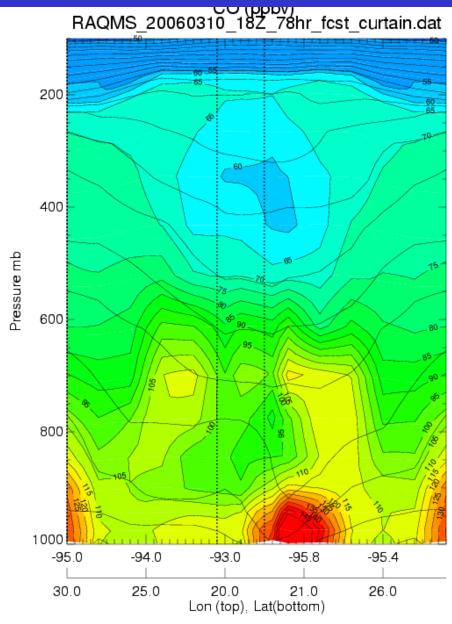
RAQMS 78hr O3 Curtain/Flight Track valid 18Z 03/10 (Fri)

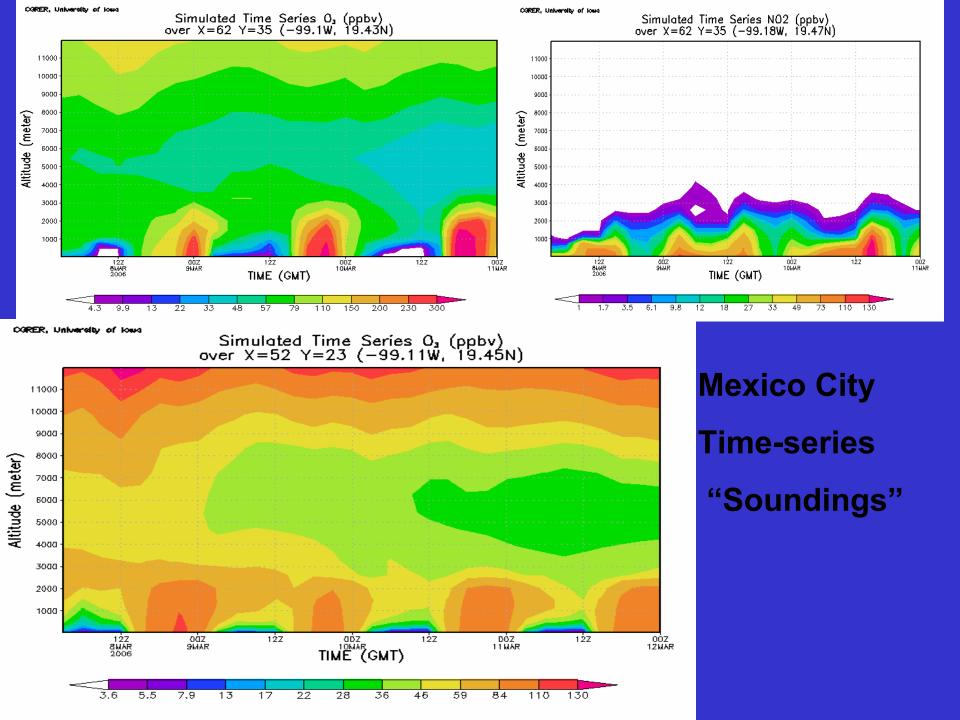




RAQMS 78hr CO Curtain/Flight Track valid 18Z 03/10 (Fri)







Ames-GSFC Trajectory/Satellite Prods

L. Pfister / K. Pickering / R. Chatfield

OMI AI 5-day exposure: Asian dust plume hits California

